

11/16/99

HAVERSTOCK & OWENS LLP
 260 Sheridan Avenue, Suite 420
 Palo Alto, California 94306
 (650) 833-0160

BOX NEW PATENT APPLICATION
 Assistant Commissioner for Patents
 Washington, D.C. 20231

Attorney Docket No.: LUCENT-01400

NEW APPLICATION TRANSMITTAL

Sir:

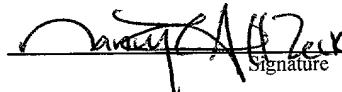
Transmitted herewith for filing is the patent application of Inventor: Joseph W. Kuter et al.

Title: BOOKMARKING VOICE MESSAGES

CERTIFICATION UNDER 37 CFR § 1.10

I hereby certify that this New Application and the documents referred to as enclosed herein are being deposited with the United States Postal Service on this date, November 16, 1999, in an envelope bearing "Express Mail Post Office To Addressee" Mailing Label Number EL454481332US addressed to: **PATENT APPLICATION**, Assistant Commissioner for Patents, Washington, D.C. 20231.

Nancy Affleck
 (Name of Person Mailing Paper)



Signature

Enclosed are:

1. The papers required for filing date under CFR § 1.53(b):

<u>17</u>	Pages of Specification (including claims):	<u>6</u>	Sheet(s) of Drawings:
			Formal
			Informal

2. Declaration or Oath
 3. Power of Attorney (combined with Declaration)
 4. Assignment of the Invention to Lucent Technologies, Inc. (including Form PTO-1595).

Fee Calculation

— Amendment changing number of claims or deleting multiple dependencies is enclosed.

CLAIMS AS FILED

	Number Filed	Number Extra	Rate	Basic Fee
				\$760.00
Total Claims	47 - 20 =	27	\$18.00	486.00
Independent Claims	4 - 3 =	1	\$78.00	78.00
Multiple Dependent claim(s), if any			\$260.00	
Filing Fee Calculation				\$1,324.00

6. — Verified Statement (Declaration) Claiming Small Entity Status

50% Filing Fee Reduction (if applicable) \$0.00

7. Other Fees

<input checked="" type="checkbox"/> Assignment Recordation Fee	40.00
<u>—</u> Other	0.00

TOTAL FEES ENCLOSED \$0.00

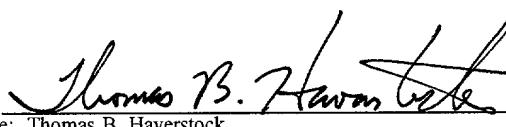
8. Please file the application and charge **Lucent Technologies Deposit Account No. 12-2325** the amount of \$1,364.00 (\$1,324.00 to cover the filing fee plus \$40.00 for the Assignment Recordation Fee).. Duplicate copies of this letter are enclosed. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or credit **Deposit Account No. 12-2325** as required to correct the error.

9. Return Receipt Postcard

9. Please address all correspondence to

Thomas B. Haverstock
 Haverstock & Owens LLP
 260 Sheridan Avenue, Suite 420
 Palo Alto, CA 94306

Dated: November 16, 1999

By: 
 Name: Thomas B. Haverstock
 Registration No.: 32,571

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 11/16/99
 JC09/441106

PATENT
Attorney Docket No.: LUCENT-01400

BOOKMARKING VOICE MESSAGES

FIELD OF THE INVENTION

This invention relates to the field of voice messaging. More particularly, this invention relates to the field of accessing specific information within a portion of a voice message.

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BACKGROUND OF THE INVENTION

A multimedia messaging system of the prior art is illustrated in FIG. 1. The multimedia messaging system 10 includes a PBX (Private Branch eXchange) telephone system 12, a messaging server 14, a LAN (Local Area Network) 16, and an Internet gateway 18. Incoming telephone lines 20 are coupled to the PBX telephone system 12. The PBX telephone system 12 is coupled to the messaging server 14. The messaging server 14 is coupled to the LAN 16. The Internet gateway 18 is coupled to the messaging server 14.

The PBX telephone system 12 includes a PBX 22 and first, second, and third telephones, 24, 26, and 28. The first, second, and third telephones, 24, 26, and 28, are coupled to the PBX 22. The PBX 22 is coupled to the messaging server 14. The LAN 16 includes a file server 30, a printer 32, and first, second, and third computers, 34, 36, and 38. The LAN 16 couples the file server 30, the printer 32, and the first, second, and third computers, 34, 36, and 38, together.

It is well known in the art that the multimedia messaging system 10 can be configured with more or less telephones, computers, file servers, or printers. Also, it is well known in the art that the Internet gateway 18 could be replaced by another type of network connection or could be eliminated altogether.

The multimedia messaging system 10 manages multiple message formats including voice messages, facsimile (fax) messages, text messages, and MIME

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(Multipurpose Internet Mail Extension) messages including one or more binary components.

A voice message enters the multimedia messaging system 10 via one of the telephone lines 20, via the first, second, or third telephones, 24, 26, or 28, via the Internet gateway 18, or via a microphone coupled to the first, second, or third computer, 34, 36, or 38. The voice message is stored on the messaging server 14.

A voice message recipient retrieves the voice message by accessing the messaging server 14 via an external telephone, via the first, second, or third telephone, 24, 26, or 28, or via the first, second, or third computers, 34, 36, or 38. When accessing the messaging server 14 via the external telephone or via the first, second, or third telephone, 24, 26, or 28, the voice message recipient retrieves the voice message using a telephone user interface. The telephone user interface provides access to the voice message via touch-tone telephone keys and a voice prompted menu system. When accessing the voice mail message using the first, second, or third computers, 34, 36, or 38, the voice message recipient uses a voice playback/record GUI (Graphical User Interface) of the prior art and listens to the voice message via a speaker coupled to the first, second, or third computer, 34, 36, or 38.

The voice playback/record GUI of the prior art is illustrated in FIG. 2. The voice playback/record GUI 40 includes a title bar 42, a drop-down menu bar 44, a message status window 46, a progress display bar 48, a message control bar 50, a volume control 52, and a speed control 54. It is well known in the art that GUIs in general can be arranged in a multitude of formats and styles, so the voice playback/record GUI 40 should be understood to be an example format and an example style selected from the multitude of formats and styles.

The title bar 42 of the voice playback/record GUI 40 indicates a software title, which in this case is "Voice Message Software," a generic title. The drop-down menu bar 44 includes the headings of "File," "Audio," "Recent," "Options," and "Help." The

message status window 46 indicates whether the voice message is in "Play" mode, "Pause" mode, or "Record" mode. The message status window 46 also indicates a current location within the message. In FIG. 2, the voice message is in the "Pause" mode and the current locations is indicated as "0 kb" and "00:00." The latter indicates "00" minutes and "00" seconds.

The progress display bar 48 includes a progress display indicator 56, a move backward button 58, and a move forward button 60. As the voice message is being played, the progress display indicator 56 moves across the progress display bar 48 from left to right. The move backward and move forward buttons, 58 and 60, are used to move backward or forward within the voice message. The message control bar 50 includes a go-to-beginning icon 62, a skip back icon 64, a stop icon 66, a play icon 68, a skip forward icon 70, a go-to-end icon 72, a record icon 74, and an erase icon 76, all of which are clickable icons used to facilitate control of the voice message.

Faced with the problem of finding a specific piece of information within a voice message, such as an address, a telephone number, or a day and time, the voice message recipient will either listen from the beginning of the message until the voice message recipient hears the specific piece of information or the voice message recipient will use the skip forward icon 70 or skip back icon 64 to try to locate the specific piece of information.

It would be advantageous to be able to find a specific piece of information within a voice message more efficiently.

What is needed is a method of efficiently finding a specific piece of information within a voice message.

25 SUMMARY OF THE INVENTION

The present invention is a method of bookmarking a voice message including the step of marking the voice message with a bookmark in a bookmark location. The

present invention also includes a method of accessing the voice message at the bookmark location by selecting the bookmark.

BRIEF DESCRIPTION OF THE DRAWINGS

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FIG. 1 illustrates a multimedia messaging system of the prior art.

10 FIG. 2 illustrates a voice playback/record GUI (Graphical User Interface) of the prior art.

FIG. 3 illustrates the preferred bookmarking method of the present invention.

15 FIG. 4 illustrates the preferred bookmark accessing method of the present invention.

FIG. 5 illustrates the preferred apparatus for bookmarking the voice message of the present invention.

FIG. 6 illustrates a voice playback/record GUI of the present invention.

FIG. 7 illustrates an alternative bookmarking method of the present invention.

20 FIG. 8 illustrates a first alternative voice playback/record GUI of the present invention.

FIG. 9 illustrates a second alternative voice playback/record GUI of the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The preferred bookmarking method of the present invention is illustrated in FIG. 3. The preferred bookmarking method 80 includes first, second, and third steps, 82, 84, and 86. In the first step 82, a voice message author begins recording the voice message. In the second step 84, the voice message author marks the voice message with a first bookmark, using a user interface, while continuing to record the voice message. In the third step 86, the voice message author marks the voice message with additional bookmarks while continuing to record of the voice message. It will be

readily apparent to one skilled in the art that the voice message author can pause the recording while marking the voice message with the first bookmark and the additional bookmarks. It will also be readily apparent to one skilled in the art that the preferred bookmarking method 80 does not necessarily include the third step 86 so that the voice message is not marked with the additional bookmarks.

The preferred bookmark accessing method of the present invention is illustrated in FIG. 4. The preferred bookmark accessing method 90 includes fourth, fifth, sixth, and seventh steps, 92, 94, 96, and 98. In the fourth step 92, a listener, such as a voice message recipient, selects the bookmarked voice message. In the fifth step 94, the listener indexes to the bookmark within the voice message using the user interface. In the sixth step 96, playback begins at the bookmark and the listener listens to the bookmarked voice message beginning at the bookmark. Upon the listener selecting the bookmark in the fifth step 94, a player automatically positions playback at the bookmark and begins to play continuously so that the listener listens in the sixth step 96 until the playback is interrupted by the listener or until a voice message end is reached. In the seventh step 98, the listener listens to more of the bookmarked voice message by selecting the additional bookmarks. Alternatively the preferred bookmark accessing method 90 does not include the seventh step 98 so that the listener does not access the additional bookmarks.

A voice message apparatus of the present invention is illustrated in FIG. 5.

The voice message apparatus 100 includes a user interface 102, a processing unit 104, and a storage media 106. The user interface 102 is coupled to the processing unit 104. The processing unit 104 is coupled to the storage media 106. The user interface 102 includes a microphone and a speaker. Preferably, the voice message apparatus is a computer where the user interface 102 includes a voice playback/record GUI (Graphical User Interface), where the processing unit 104 is a computer processing unit, where the storage media 106 is a computer disk drive, and where the preferred

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bookmarking method 80 (FIG. 3) and the preferred bookmark accessing method 90 (FIG. 4) are implemented as computer software. Preferably, the computer is arranged as part of a multimedia messaging system where the storage media 106 is part of a messaging server. Alternatively, the storage media is any type of magnetic, optical, or magneto-optical storage, and the computer is a stand-alone computer or the computer is part of a different type of network.

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The voice playback/record GUI of the present invention is illustrated in FIG. 6. the voice playback/record GUI 110 includes a title bar 42, a drop-down menu bar 44, a message status window 46, a progress display bar 48, a message control bar 50, a volume control 52, a speed control 54. The drop-down menu bar 44 includes an add-bookmark function 112, which is depicted as "AddBookmark" in FIG. 6. It will be readily apparent to one skilled in the art that the add-bookmark function 112 can be implemented in numerous formats. For example, the add-bookmark function could be depicted as a clickable icon and added to the message control bar 50.

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The progress display bar 48 includes first, second, third, and fourth bookmark indicators, 114, 116, 118, and 120. To access the first, second, third, or fourth bookmarks, 114, 116, 118, or 120, the listener clicks the first, second, third, or fourth bookmarks, 114, 116, 118, or 120. It will be readily apparent to one skilled in the art that the first, second, third, and fourth bookmarks, 114, 116, 118, and 120, can be implemented in numerous formats.

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First and second alternative bookmarking methods of the present invention account for a possible cognitive delay between a decision to place the first bookmark, or the additional bookmarks, and an actual placement of the first bookmark, or the additional bookmarks. The first alternative bookmarking method of the present invention method adds a first additional step to the preferred bookmarking method 80. The first additional step places the bookmark and the additional bookmarks at utterance beginning locations. The utterance beginning locations are beginning of

utterances. The utterance beginning locations are found using an intelligent search. The intelligent search preferably employs a voice processing technique. The voice processing technique is selected from a group including a voice parameter, an amplitude, a plosive, a pitch change, a number recognition, and a word recognition.

5 The second alternative bookmarking method of the present invention adds a second additional step to the preferred bookmarking method 80. The second additional step places the bookmark and the additional bookmarks at locations that are a specific time duration before an actual selection of the bookmark and the additional bookmarks. It will be readily apparent to one skilled in the art that the specific time duration can be a user selected parameter.

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A third alternative bookmarking method of the present invention is illustrated in FIG. 7. The third alternative bookmarking method 130 includes eighth, ninth, and tenth steps, 132, 134, and 136. In the eighth step 132, a bookmarking person listens to a pre-recorded voice message. In the ninth step 134, the bookmarking person marks the pre-recorded voice message with the bookmark, while listening to the pre-recorded voice message using the user interface. In the tenth method step 136, the bookmarking person marks the pre-recorded voice message with the additional bookmarks, while continuing to listen to the pre-recorded. The bookmarking person can be the voice message author, the voice message recipient, or a person that is not the voice message author or the voice message recipient but who has access to the voice message.

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A fourth alternative bookmarking method of the present invention adds a third additional step to the third alternative bookmarking method 130. In the third additional step, the listener annotates the bookmark and the additional bookmark with a type of information. The type of information is selected from the group including text and icons.

A first alternative voice playback/record GUI of the present invention, which implements the fourth alternative bookmarking method, is illustrated in FIG. 8. The

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first alternative voice playback/record GUI 140 adds an annotation window 142 to the voice playback/record GUI 110. The annotation window 142 includes first, second, third, and fourth annotations, 144, 146, 148, and 150, which correspond to the first, second, third, and fourth bookmarks, 114, 116, 118, and 120. The first, second, third, and fourth annotations, 144, 146, 148, and 150, indicate sections of the voice message. It will be readily apparent to one skilled in the art that the first, second, third, and fourth bookmarks, 114, 116, 118, and 120, and the first, second, third, and fourth annotations, 144, 146, 148, and 150 can be numbered or lettered so that a correspondence between the bookmarks and the annotations is explicit.

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A second alternative voice playback/record GUI of the present invention is illustrated in FIG. 9. The second alternative voice playback/record GUI 160 replaces the first, second, third, and fourth annotations, 144, 146, 148, and 150, with first, second, third, and fourth detailed annotations, 164, 166, 168, and 170. The first, second, third, and fourth detailed annotations, 164, 166, 168, and 170, add message specific information to the first, second, third, and fourth annotations, 144, 146, 148, and 150.

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A first alternative voice message apparatus is a telephone system and voice processing equipment coupled to the storage media 106. For the telephone system and the voice processing equipment, the user interface 102 is a telephone user interface (TUI), which includes touch tone keys and a voice prompted menu. The voice processing equipment is that which is normally associated with providing the TUI. The processing unit 104 includes first electrical circuitry associated with the telephone system and the voice processing equipment. During playback of the voice message, the voice message recipient, upon hearing an important passage, presses a place bookmark touch tone key to set the first bookmark. The first bookmark is saved with the voice message so that the first bookmark is available in a subsequent playback of the voice message. This allows direct navigation to the important passage using the

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TUI or the voice playback/record GUI. When using the TUI, the listener presses a go-to-bookmark touch tone key to commence playback at the first bookmark. It will be readily apparent to one skilled in the art that the voice message recipient can also place the additional bookmarks using the TUI.

5 A second alternative voice message apparatus is an answering machine. For the answering machine, the user interface 102 is a first mechanical user interface, which includes first buttons/display on the answering machine. The processing unit 104 includes second electrical circuitry associated with the answering machine. The storage media 106 is an answering machine storage media. Alternatively, the user interface 102 for the answering machine is the TUI.

10 A third alternative voice message apparatus is a recording machine. For the recording machine, the user interface 102 is a second mechanical user interface, which includes second buttons/display on the recording machine. The processing unit 104 includes third electrical circuitry associated with the recording machine. The storage media 106 is a recording machine storage media.

15 An alternative user interface of the present invention is a voice command user interface.

20 An alternative embodiment of the present invention automatically bookmarks the voice message using automatic search and locate pattern matching in which specific voice message content is automatically bookmarked. The specific voice message content is selected from the group including phone numbers, e-mail addresses, physical addresses, dates, and times.

25 It will be readily apparent to one skilled in the art that other various modifications may be made to the preferred embodiment without departing from the spirit and scope of the invention as defined by the appended claims.

CLAIMS

We claim:

1. A method of bookmarking a voice message comprising the step of
2 marking the voice message in a first bookmark location with a first bookmark such
3 that a listener accesses the voice message at the first bookmark location by selecting
4 the first bookmark.

1. The method of claim 1 wherein the first bookmark location is selected
2 by the listener.

1. The method of claim 1 wherein the listener is a recipient.

1. The method of claim 3 wherein the first bookmark location is selected
2 by a person other than the recipient.

1. The method of claim 4 wherein the person is an author of the voice
2 message.

1. The method of claim 4 wherein the person is an editor of the voice
2 message.

1. The method of claim 3 wherein the first bookmark location is selected
2 by the recipient.

1 8. The method of claim 1 further comprising the step of marking the voice
2 message in a second bookmark location with a second bookmark such that the listener
3 accesses the voice message at the second bookmark location by selecting the second
4 bookmark.

1 9. The method of claim 8 wherein the listener is a recipient.

1 10. The method of claim 9 wherein the first and second bookmark locations
2 are selected by a person other than the recipient and further wherein the first and
3 second bookmarks indicate sections of the voice message.

1 11. The method of claim 8 further comprising the step of marking the voice
2 message at additional bookmark locations with additional bookmarks such that the
3 listener accesses the voice message at the additional bookmarks by selecting the
4 additional bookmarks.

1 12. The method of claim 1 wherein the first bookmark location is selected
2 during an utterance and further wherein the first bookmark location is moved to an
3 utterance beginning location.

1 13. The method of claim 12 wherein the utterance beginning location is
2 found using an intelligent search.

1 14. The method of claim 13 wherein the intelligent search includes a voice
2 processing technique.

1 15. The method of claim 14 wherein the voice processing technique utilizes
2 a voice parameter, the voice parameter being selected from the group consisting of an
3 amplitude, a plosive, a pitch change, a number recognition, a word recognition, and a
4 combination thereof.

1 16. The method of claim 1 wherein the first bookmark location is selected
2 by a listener and further wherein the first bookmark location is moved backward in
3 time by a specific time duration.

1 17. The method of claim 1 wherein the first bookmark location is selected
2 using a user interface.

1 18. The method of claim 17 wherein the user interface is selected from the
2 group consisting of a graphical user interface, a telephone user interface, a mechanical
3 user interface, and a voice command user interface.

1 19. The method of claim 1 wherein the first bookmark location is accessed
2 by a listener by selecting the first bookmark using a user interface.

1 20. The method of claim 19 wherein the user interface is selected from the
2 group consisting of a graphical user interface, a telephone user interface, a mechanical
3 user interface, and a voice command user interface.

1 21. The method of claim 1 wherein the first bookmark location is selected
2 automatically by a search and locate pattern matching technique.

1 22. An apparatus for bookmarking a voice message comprising:

2 a. a storage media for storing the voice message;
3 b. a processing unit coupled to the storage media; and
4 c. a user interface coupled to the processing unit such that a user
5 places a first bookmark at a first bookmark location within the voice
6 message using the user interface.

1 23. The apparatus of claim 22 wherein the user places a second bookmark
2 at a second bookmark location within the voice message using the user interface.

1 24. The apparatus of claim 23 wherein the user places additional bookmarks
2 at additional bookmark locations within the voice message using the user interface.

1 25. The apparatus of claim 22 wherein the first bookmark is selected during
2 an utterance and further wherein the first bookmark is moved to an utterance
3 beginning location.

1 26. The apparatus of claim 25 wherein the utterance beginning location is
2 found using a voice processing technique.

1 27. The apparatus of claim 26 wherein the voice processing technique
2 utilizes a voice parameter, the voice parameter being selected from the group
3 consisting of an amplitude, a plosive, a pitch change, a number recognition, a word
4 recognition, and a combination thereof.

1 28. The apparatus of claim 22 wherein the first bookmark location is moved
2 backward in time by a specific time duration.

1 29. The apparatus of claim 22 wherein the user interface is selected from
2 the group consisting of a graphical user interface, a telephone user interface, a
3 mechanical user interface, and a voice command user interface.

1 30. An apparatus for accessing a bookmarked voice message comprising:
2 a. a storage media for storing the bookmarked voice message;
3 b. a processing unit coupled to the storage media; and
4 c. a user interface coupled to the processing unit such that a listener
5 accesses a first bookmark location within the bookmarked voice message
6 by selecting a first bookmark using the user interface.

1 31. The apparatus of claim 30 wherein the listener accesses a second
2 bookmark location within the bookmarked voice message by selecting a second
3 bookmark using the user interface.

1 32. The apparatus of claim 31 wherein the listener accesses additional
2 bookmark locations within the bookmarked voice message by selecting additional
3 bookmarks using the user interface.

1 33. The apparatus of claim 30 wherein the user interface is selected from
2 the group consisting of a graphical user interface, a telephone user interface, a
3 mechanical user interface, and a voice command user interface.

1 34. An article of manufacture comprising a computer readable medium
2 bearing computer program code embodied therein for use with a computer, the
3 computer program code including means for marking the voice message in a first

4 bookmark location with a first bookmark such that in operation a listener accesses the
5 voice message at the first bookmark location by selecting the first bookmark.

1 35. The article of manufacture of claim 34 further including means for
2 marking the voice message in a second bookmark location with a second bookmark
3 such that in operation the listener accesses the voice message at the second bookmark
4 location by selecting the second bookmark.

1 36. The article of manufacture of claim 35 wherein in operation the first
2 and second bookmark locations are selected by a person other than the listener and
3 further wherein the first and second bookmarks indicate sections of the voice message.

1 37. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is selected by a person other than the listener.

1 38. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is selected by the listener.

1 39. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is selected during an utterance and further wherein the first
3 bookmark location is moved to an utterance beginning location.

1 40. The article of manufacture of claim 39 wherein in operation the
2 utterance beginning location is found using a voice processing technique.

1 41. The article of manufacture of claim 40 wherein in operation the voice
2 processing technique utilizes a voice parameter, the voice parameter being selected

3 from the group consisting of an amplitude, a plosive, a pitch change, a number
4 recognition, a word recognition, and a combination thereof.

1 42. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is selected by the listener and further wherein in operation the first
3 bookmark location is moved backward in time by a specific time duration.

1 43. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is selected using a user interface.

1 44. The article of manufacture of claim 43 wherein the user interface is
2 selected from the group consisting of a graphical user interface, a telephone user
3 interface, a mechanical user interface, and a voice command user interface.

1 45. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is accessed by the listener by selecting the first bookmark using a
3 user interface.

1 46. The article of manufacture of claim 45 wherein the user interface is
2 selected from the group consisting of a graphical user interface, a telephone user
3 interface, a mechanical user interface, and voice command user interface.

1 47. The article of manufacture of claim 34 wherein in operation the first
2 bookmark location is selected automatically by a search and locate pattern matching
3 technique.

ABSTRACT OF THE DISCLOSURE

A voice message is bookmarked by marking the voice message with a bookmark in a bookmark location. The voice message is accessed at the bookmark location by selecting the bookmark.

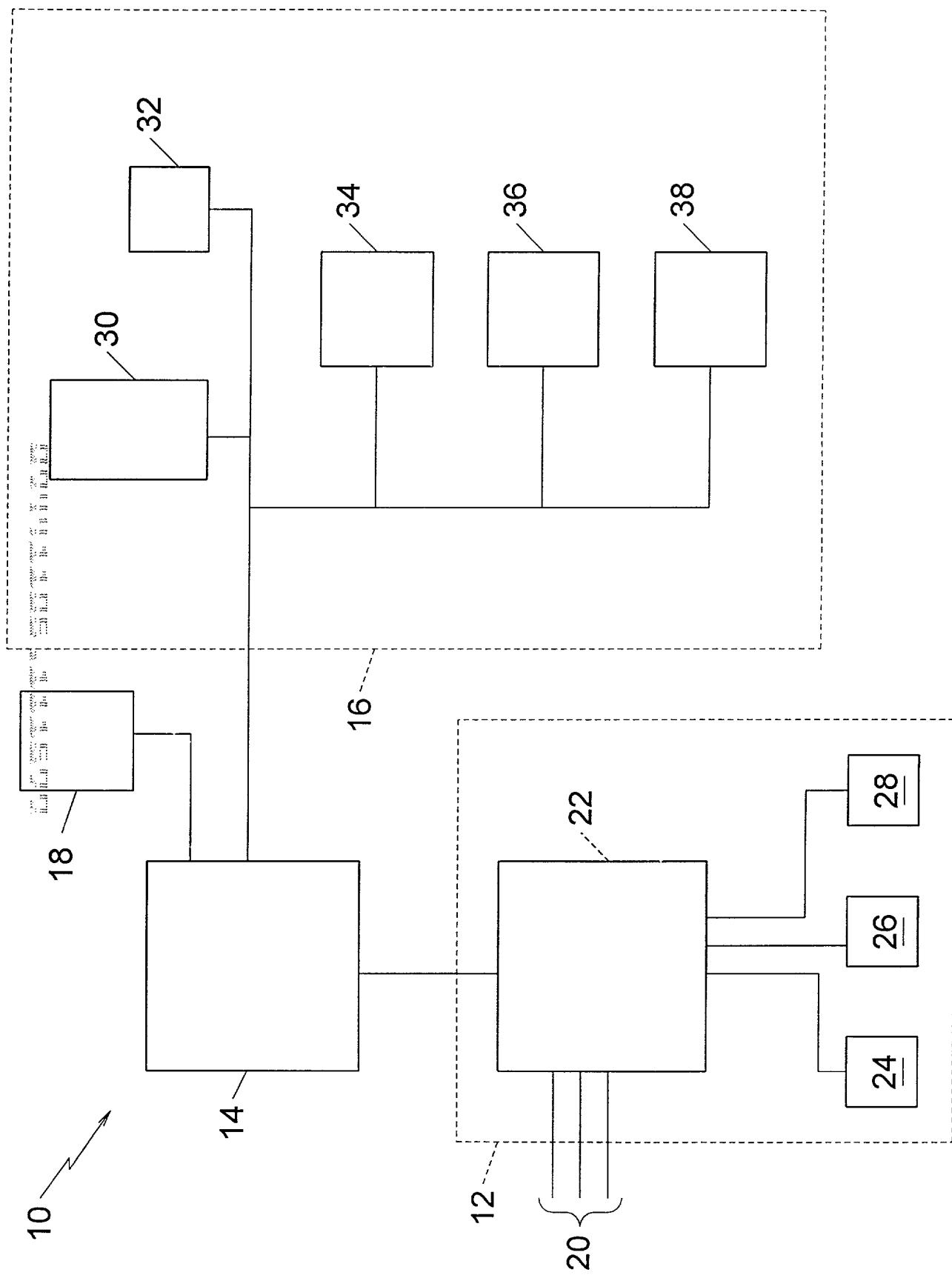


FIG. 1
(PRIOR ART)

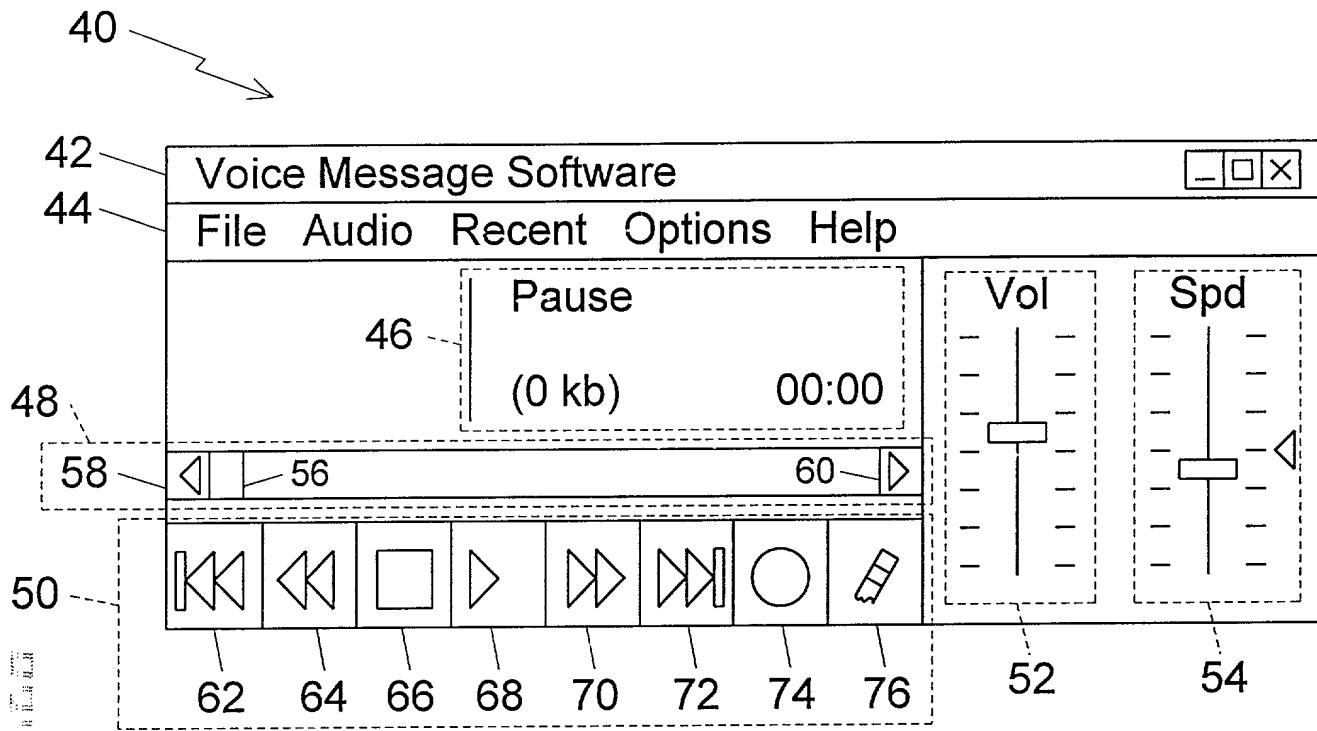


FIG. 2
(PRIOR ART)

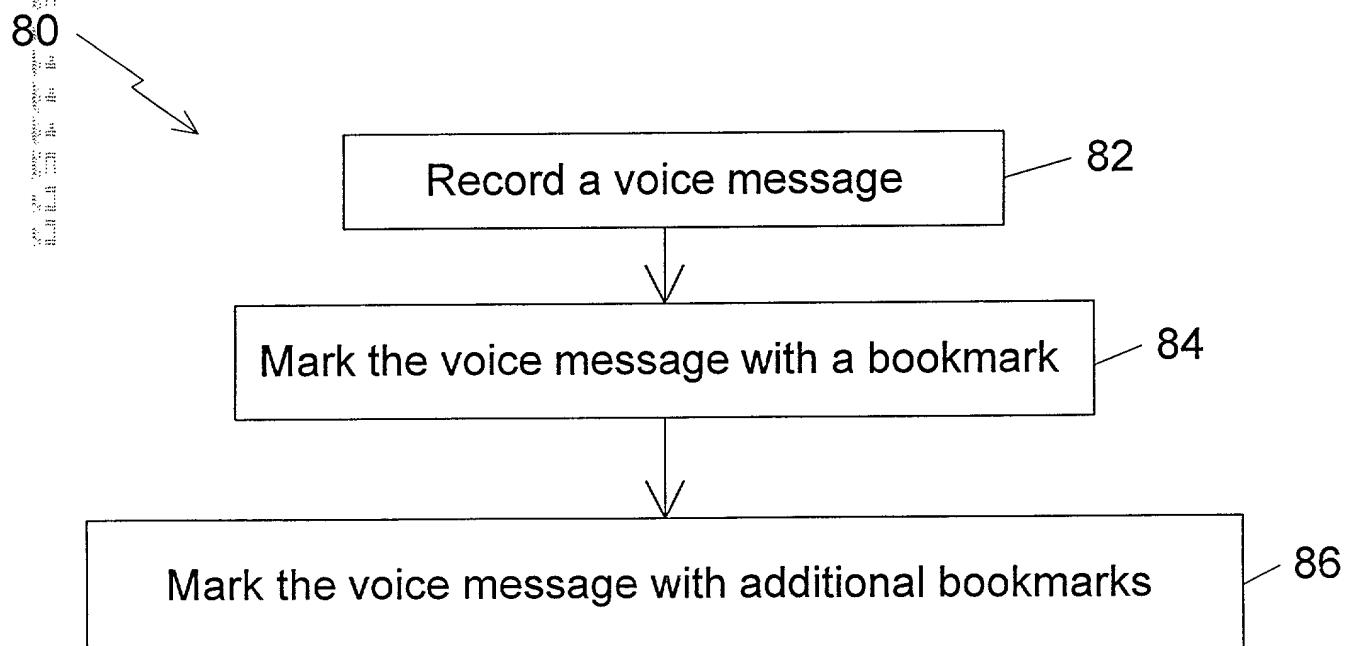


FIG. 3

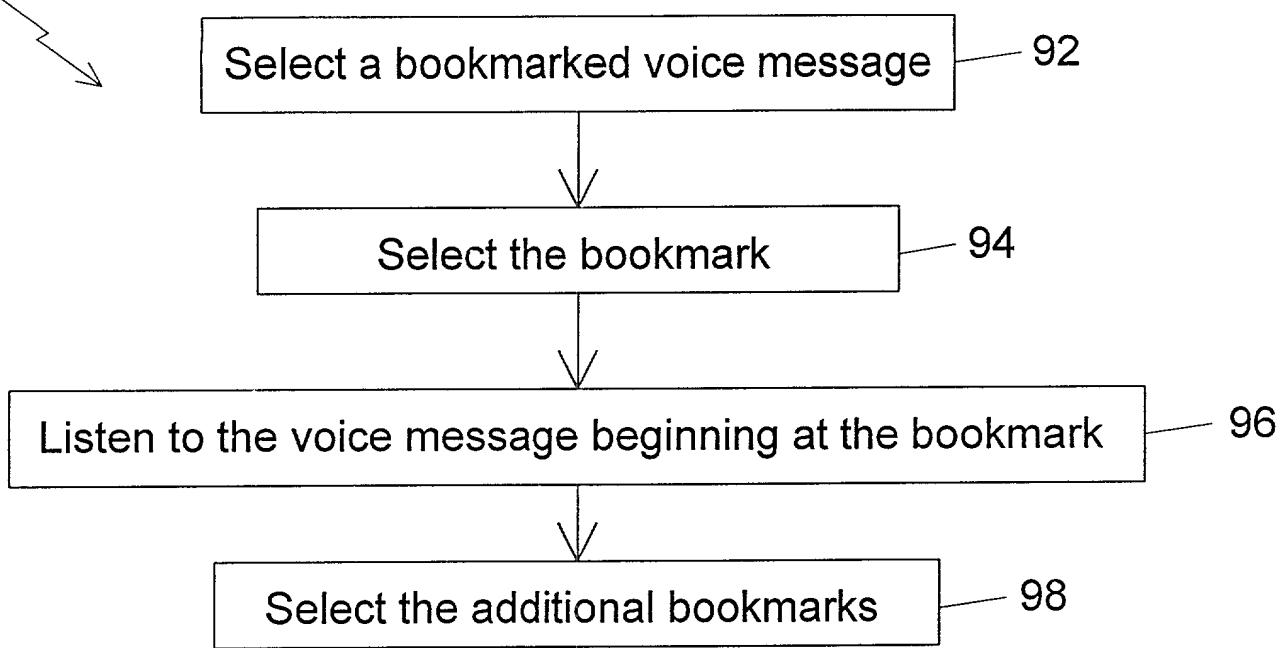


FIG. 4

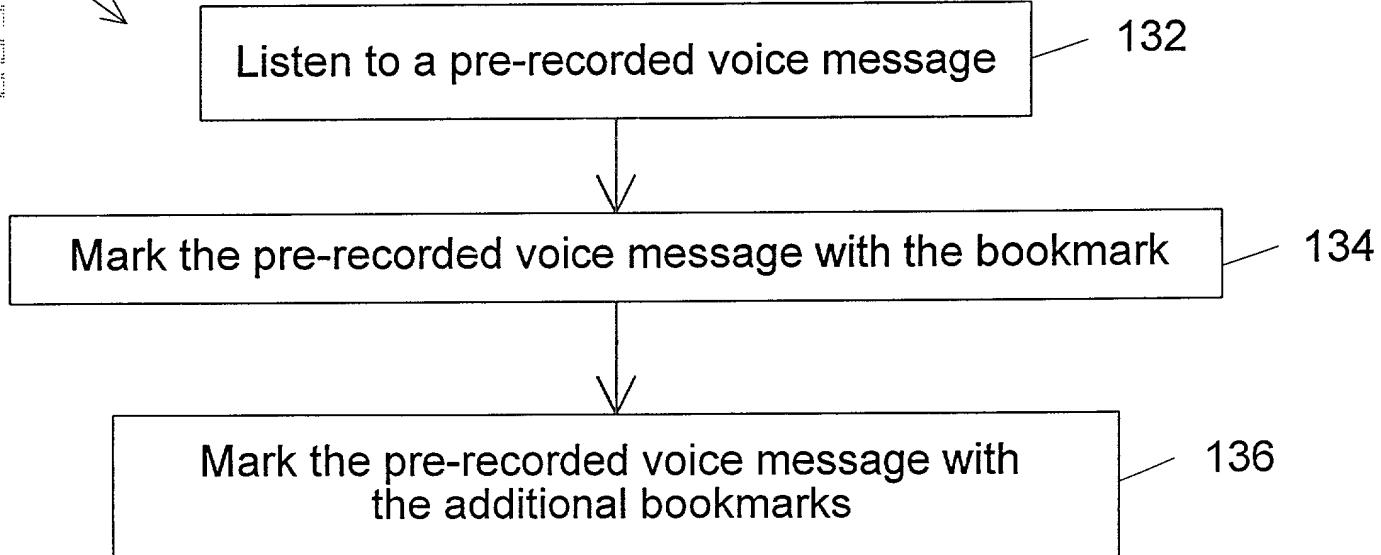


FIG. 7

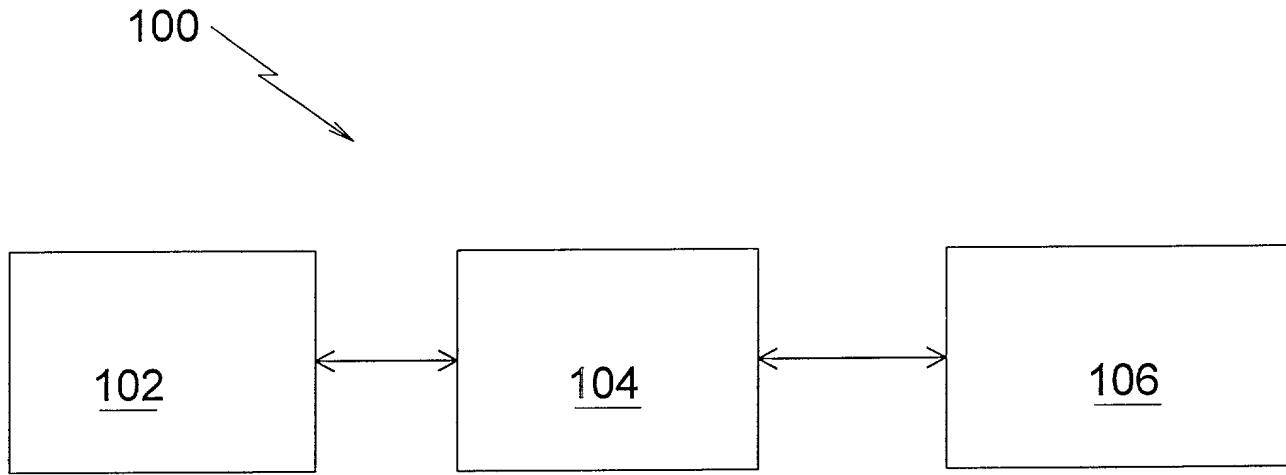


FIG. 5

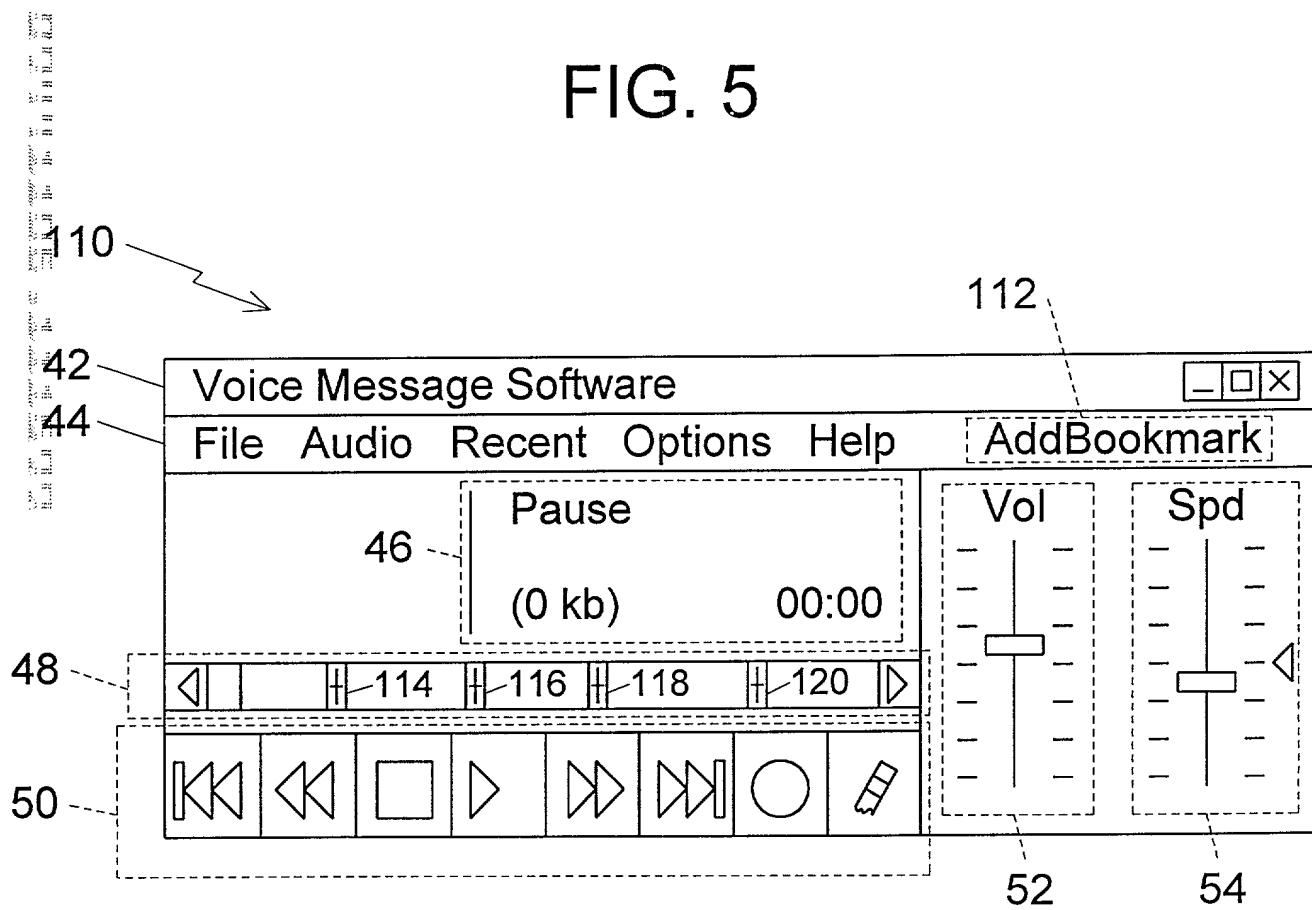


FIG. 6

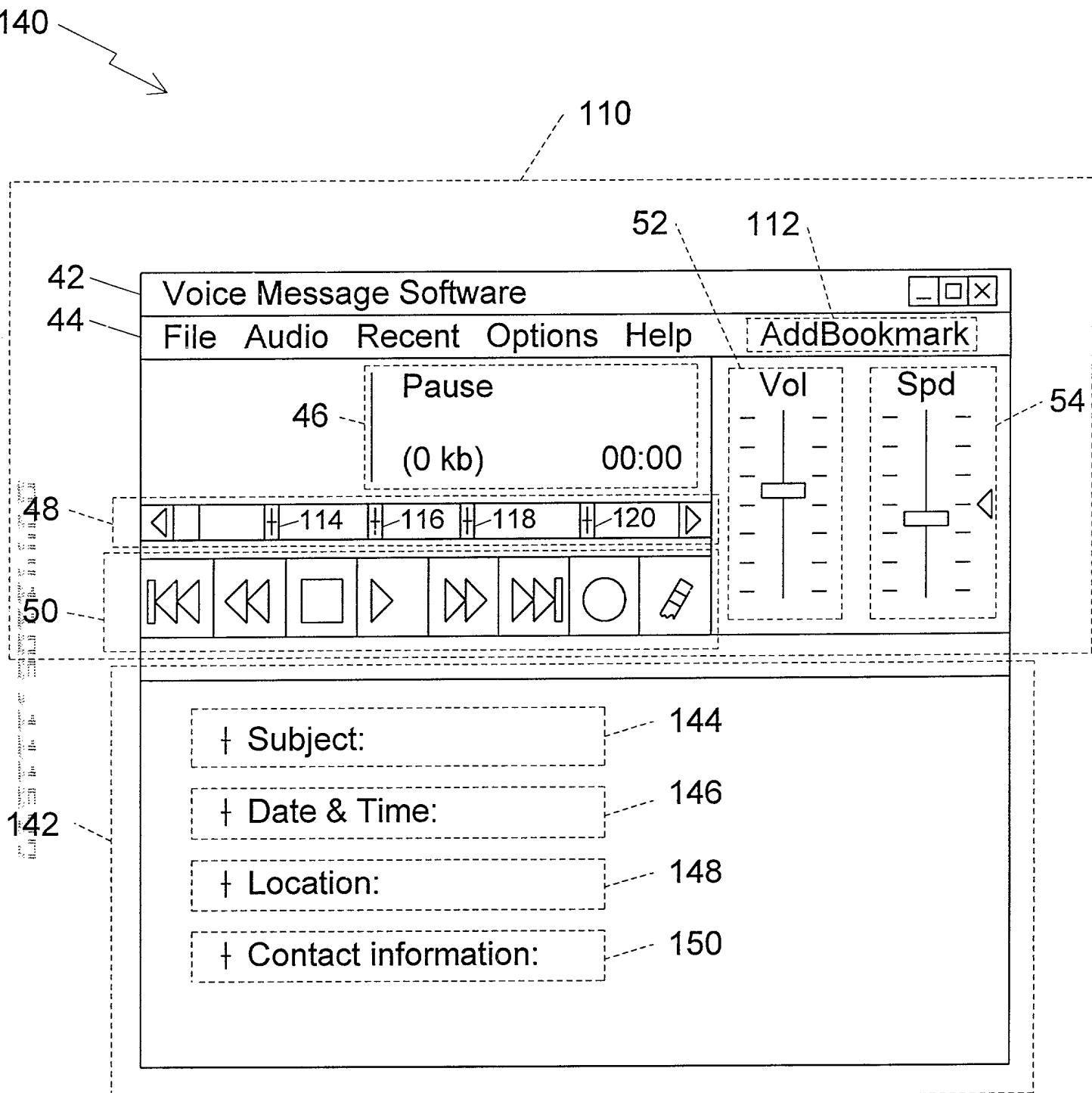


FIG. 8

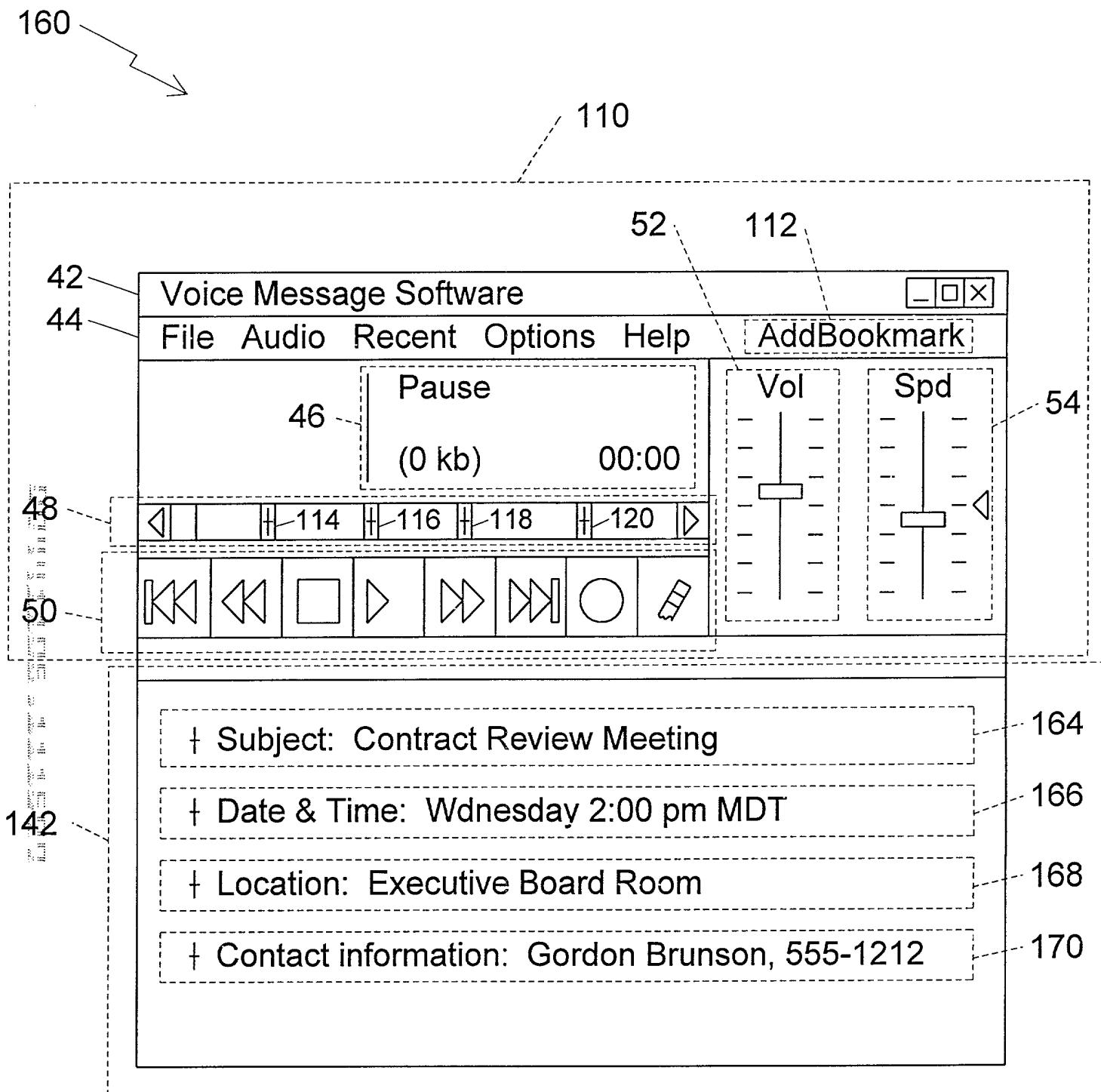


FIG. 9

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **BOOKMARKING VOICE MESSAGES**. The specification of which is attached hereto. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration. I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Claim	
	Yes	No

Number	Country	Day/Month/Year Filed
--------	---------	----------------------

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status: Patented, Pending, Abandoned
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following as my attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Lester H. Birnbaum	25,830	Richard J. Botos	32,016
Jeffrey J. Brosemer	36,096	Kenneth M. Brown	37,590
James A. DiGiorgio	36,980	Donald P. Dinella	39,961
Guy Eriksen	P-41736	Martin I. Finston	31,613
James H. Fox	29,379	Barry H. Freedman	26,166
Julio A. Garceran	37,138	Mony R. Ghose	38,159
Jimmy Goo	36,528	Anthony Grillo	36,535
Stephen M. Gurey	27,336	John M. Harman	38,173
Donald E. Hayes Jr.	33,245	John W. Hayes	33,900
Mark A. Kurisko	38,944	Irena Lager	39,260
Christopher N. Malvone	34,866	Scott W. McLellan	30,776
Martin G. Meder	34,674	Geraldine Monteleone	40,097
John C. Moran	30,782	Micheal A. Morra	28,975
Gregory J. Murgia	41,209	Claude R. Narcisse	38,979
Joseph J. Opalach	36,229	Neil R. Ormos	35,309
Eugen E. Pacher	29,964	Jack R. Penrod	31,864
Daniel J. Piotrowski	P-42,079	Gregory C. Ranieri	29,695
Scott J. Rittman	39,010	Eugene J. Rosenthal	36,658
Bruce S. Schneider	27,949	Ronald D. Slusky	26,585
David L. Smith	30,592	Patricia A. Verlangieri	P-42,201
John P. Veschi	39,058	David Volejnicek	29,355
Charles L. Warren	27,407	Eli Weiss	17,765

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full Name of First Joint Inventor: Joseph W. Kuter

Inventor's Signature: Joseph W. Kuhn Date 12 Nov 1999

Residence: 1885 East 143rd Avenue, Brighton, Colorado 80601
Citizenship: United States
Post Office Address: 1885 East 143rd Avenue, Brighton, Colorado 80601

Full Name of Second Joint Inventor: Gordon R. Brunson

Inventor's Signature: John B. Munro Date 2 Nov 1999

Residence: 925 Mesa Court, Broomfield, Colorado 80020
Citizenship: United States
Post Office Address: 925 Mesa Court, Broomfield, Colorado 80020

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ATTACHMENT A

Attorney Names: Thomas B. Haverstock

Reg. No.: 32,571

Jonathan O. Owens

Reg. No.: 37,902

Telephone calls should be made to Haverstock & Owens LLP at:

Phone No.: 650-833-0160
Fax No.: 650-833-0170

All written communications are to be addressed to:

Thomas B. Haverstock
HAVERSTOCK & OWENS LLP
260 Sheridan Avenue, Suite 420
Palo Alto, CA 94306